



# Common Logistics Command and Control System



## SV11 – Physical Data Model Un-Tethered / DSDE Data Dictionary

United States Marine Corps

Office of Naval Research

Naval Facilities Engineering Service Center

Marine Corps Systems Command

Sapient Corporation

December 2003

## Table of Contents

---

<b>Data dictionary</b>	<b>2</b>
Description	2
COMM system tables	3
DSDE system tables	8



## Data dictionary

---

### Description

This document describes the integrated data dictionary for the CLC2S Un-Tethered communications infrastructure and the Deployable Shared Data Environment (DSDE) system.

The different tables in the system can be grouped the following way based on functionality:

- COMM system tables. These are the system tables that apply to the communication infrastructure. These tables store the information for the communications architecture, units, servers, routes between the servers, addresses, lookup tables and message queues and logs.
- DSDE system tables. These tables store field mapping, data mapping, schedules, feed history and lookup information for the CLC2S feeds



## COMM system tables

These tables store the information for the communications architecture, units, servers, routes between the servers, addresses, lookup tables and message queues and logs.

### COMMT\_ADAPTER\_LOOKUP

This table holds information with regard to which adapter to call to send a message.

Column name	Description	Datatype	Nullable	Comments
ADAPTER_ID	The adapter Id	Number	N	
ADAPTER_NAME	The adapter name	VARCHAR2(50)	N	
LISTENER_PROG_ID	The Prog id used to instantiate the adapter in question.	VARCHAR2(50)	N	

### COMMT\_APPLICATION\_LOOKUP

This table holds information with regard to which adapter to call upon receipt of a message.

Column name	Description	Datatype	Nullable	Comments
APPLICATION_ID	The unique Identifier of the adapter	Number	N	
NAME	The Name of the adapter	VARCHAR2(20)	N	
LISTENER_PROG_ID	The Prog id used to instantiate the application in question.	VARCHAR2(50)	N	
FAILOVER_APPLICATION_ID	If there is a application for when the message fails to be transmitted. Which one to call.	Number(4)	Y	

### COMMT\_CONSTANTS

This table holds the system constants used by the comm. architecture.

Column name	Description	Datatype	Nullable	Comments
CONSTANT_NAME	The Name of the constant	VARCHAR2(50)	N	
CONSTANT_VALUE	The value used by the system	VARCHAR2(50)	Y	

### COMMT\_INBOUND\_MESSAGE\_HISTORY

This Table holds information about the history of all inbound messages.

Column name	Description	Datatype	Nullable	Comments
MSG_HISTORY_ID	The unique Id for the history Item	NUMBER	N	
MESSAGE_ID	The message id the history item refers to.	NUMBER	N	
ORIGINATION_NODE_ID	The server / node where the message originated	NUMBER	N	
PRE_ACTION_MESSAGE_STATUS_CD	The status of the message prior to this update	NUMBER	N	
POST_ACTION_MESSAGE_STATUS_CD	The new status of the message	NUMBER	N	
ACTION_TIMESTAMP	Time this happened	DATE	N	



DESCRIPTION	Description of what happened	VARCHAR2(200)	Y	
-------------	------------------------------	---------------	---	--

**COMMT\_INBOUND\_QUEUE**

This table acts as the inbound queue holding all messages to be processed.

Column name	Description	Datatype	Nullable	Comments
MESSAGE_ID	Part of the unique Identifier for the message.	NUMBER	N	
ORIGINATION_NODE_ID	Part of the unique Identifier for the message. Also the server / node where the message originated.	NUMBER	N	
MESSAGE_STATUS_CD	The current status of the message. (see the COMMIT_MESSAGE_STATUS_LOOKUP table for status values)	NUMBER	N	
SENDER_UNIT_ID	Which unit sent the message.	VARCHAR2(50)	N	
RECIPIENT_UNIT_ID	Which unit is the message destined for.	VARCHAR2(50)	N	
SENDER_APPLICATION_ID	The application that sent the message (see the COMMIT_APPLICATION_LOOKUP for application values)	NUMBER	N	
RECIPIENT_APPLICATION_ID	The application that the message is destined for. (see the COMMIT_APPLICATION_LOOKUP for application values)	NUMBER	N	
CONTENT	The actual message content. (Compressed)	BLOB	N	
PRIORITY	The priority of the message.	NUMBER	N	
COMPOSITE_MESSAGE_ID	If the message is sliced into smaller pieces this is the id all parts of the message will share.	NUMBER	N	
PART_NUMBER	If the message is sliced into pieces what part is this.	NUMBER	N	
TOTAL_PARTS	The total number of parts the message has been broken into.	NUMBER	N	
NUMBER_OF_FAILEDTRIES	How many times has this message failed to be processed	NUMBER(4)	Y	
DT_CREATED	The date the message was created.	DATE	N	
DT_LST_UPDT	The date the message was last updated.	DATE	N	

**COMMT\_MESSAGE\_REROUTING**

This table is where manual overrides to the routing of an outbound message are stored.

Column name	Description	Datatype	Nullable	Comments
MESSAGE_ID	The Message in question.	NUMBER	N	
ALT_ROUTE_ID	The alternative route to take in sending this message.	NUMBER	N	



ORIGINATION_NODE_ID	The Node where the message originated.	NUMBER	N	
---------------------	--	--------	---	--

**COMMT\_MESSAGE\_STATUS\_LOOKUP**

This table is a lookup for message statuses.

Column name	Description	Datatype	Nullable	Comments
MESSAGE_STATUS_CD	The numeric value of the status	NUMBER	N	
DESCRIPTION	The English representation of the status.	VARCHAR2(50)	N	

**COMMT\_NODE**

This table holds information about the known nodes / servers in the system.

Column name	Description	Datatype	Nullable	Comments
NODE_ID	The unique Identifier of the node.	NUMBER	N	
NAME	The name of the server.	VARCHAR2(50)	N	
DESCRIPTION	The description of which server this is.	VARCHAR2(200)	Y	
ACTIVE_NODE	Is this the server that the system is running on? (Yes /No)	NUMBER(1)	N	

**COMMT\_NODE\_ADAPTER\_ASSOCIATION**

This holds the information with regards to which nodes can use which adapters to receive and transmit messages.

Column name	Description	Datatype	Nullable	Comments
NODE_ADAPTER_ASSOC_ID	The unique Id for the assoc.	NUMBER	N	
NODE_ID	The server / node Id	NUMBER	N	
ADAPTER_ID	The adapter the server can use.	NUMBER	N	
PHYSICAL_CONNECTION	The physical connection used for said adapter on said server.	VARCHAR2(200)	N	

**COMMT\_NODE\_ROUTING**

This is the routing table. It holds all routes between the various servers.

Column name	Description	Datatype	Nullable	Comments
SENDER_NODE_ID	The sending Node / server	NUMBER	N	
RECIPIENT_NODE_ID	The receiving node / server	NUMBER	N	
ROUTE_ID	The route to use. (Node adapter assoc id on the commt node adapter association table)	NUMBER	N	
PREFERENCE	The preference of this route. The lower the number the higher the preference.	NUMBER	N	

**COMMT\_OUTBOUND\_MESSAGE\_HISTORY**

This table holds information the history of the messages in the outbound queue.

Column name	Description	Datatype	Nullable	Comments
MSG_HISTORY_ID	The unique Id for the history item	NUMBER	N	
MESSAGE_ID	The message	NUMBER	N	



	id the history item refers to.			
ORIGINATION_NODE_ID	The server / node where the message originated	NUMBER	N	
PRE_ACTION_MESSAGE_STATUS_CD	The status of the message prior to this update	NUMBER	N	
POST_ACTION_MESSAGE_STATUS_CD	The new status of the message	NUMBER	N	
ACTION_TIMESTAMP	Time this happened	DATE	N	
DESCRIPTION	Description of what happened	VARCHAR2(200)	Y	

**COMMT\_OUTBOUND\_QUEUE**

This is the outbound message queue. It holds all messages to be sent.

Column name	Description	Datatype	Nullable	Comments
MESSAGE_ID	Part of the unique Identifier for the message.	NUMBER	N	
ORIGINATION_NODE_ID	Part of the unique Identifier for the message. Also the server / node where the message originated.	NUMBER	N	
MESSAGE_STATUS_CD	The current status of the message. (see the COMMIT_MESSAGE_STATUS_LOOKUP table for status values)	NUMBER	N	
SENDER_UNIT_ID	Which unit sent the message.	VARCHAR2(50)	N	
RECIPIENT_UNIT_ID	Which unit is the message destined for.	VARCHAR2(50)	N	
SENDER_APPLICATION_ID	The application that sent the message (see the COMMIT_APPLICATION_LOOKUP for application values)	NUMBER	N	
RECIPIENT_APPLICATION_ID	The application that the message is destined for. (see the COMMIT_APPLICATION_LOOKUP for application values)	NUMBER	N	
CONTENT	The actual message content. (Compressed)	BLOB	N	
PRIORITY	The priority of the message.	NUMBER	N	
COMPOSITE_MESSAGE_ID	If the message is sliced into smaller pieces this is the id all parts of the message will share.	NUMBER	N	
PART_NUMBER	If the message is sliced into pieces what part is this.	NUMBER	N	
TOTAL_PARTS	The total number of parts the message has been broken into.	NUMBER	N	
NUMBER_OF_FAILED_TRIES	How many times has this message failed to be Sent	NUMBER(4)	Y	
DT_CREATED	The date the message	DATE	N	



	was created.			
DT_LST_UPDT	The date the message was last updated.	DATE	N	

**COMMT\_UNIT**

This table holds all information on the units in the system. It tells the infrastructure which server to send a message to based on which unit you are sending a message.

Column name	Description	Datatype	Nullable	Comments
UNIT_ID	The unique Id of the unit.	VARCHAR2(50)	N	
NODE_ID	The unique Id of the server / node	NUMBER	N	
NAME	The Name of the unit.	VARCHAR2(50)	N	
DESCRIPTION	The description of who this unit is.	VARCHAR2(200)	Y	



## DSDE system tables

These tables store information for deployed SDE module of CLC2S suite of applications

### Sdet\_feed\_tag

Holds all the tags (XML tags corresponding to ECS data elements) that are used by CLC2S feeds solution

Column name	Description	Datatype	Nullable	Comments
Tag_id	ID	Number	N	
Tag_name	Name of the tag	Varchar2(50)	N	
Field_category_id	Category Id to which this tag belongs to	Number	N	
Description	Tag description	Varchar2(200)	Y	
Field_map_req_yn	Whether this tag requires field mapping? (Y or N)	Char(1)	N	
Data_map_req_yn	Whether this tag requires data mapping? (Y or N)	Char(1)	N	
Equiv_tag_id	Equivalent tag id with same tag name but different category	Number	N	
Sul_column_name	Corresponding Log P/E column name	Varchar2(100)	Y	

### Sdet\_feed\_data\_mapping

This table stores mapping information between ECS value and external system value for each of the tag for a particular feed system

Column name	Description	Datatype	Nullable	Comments
Data_mapping_id	ID	Number	N	
Tag_id	Tag Id	Number	N	
External_feed_system_id	Feed system Id	Number	N	
External_data	External system's value for the above tag_id	Varchar2(50)	Y	
Ecs_data	ECS value for the above tag_id	Varchar2(50)	Y	
Default_map_yn	Whether this tag has default value? (Y or N)	Char(1)	N	
Map_req_yn	Whether this tag requires data mapping? (Y or N)	Char(1)	N	
Display_order	Display order on the Administration tool screen	Number	N	
Ecs_feed_system_id	The reference ECS feed system Id	Number	N	



**Sdet\_feed\_system**

This table contains information about all the ECS feed systems

Column name	Description	Datatype	Nullable	Comments
Feed_system_id	ID	Number	N	
Name	Name of the feed system	Varchar2(50)	N	
Description	Feed system description	Varchar2(200)	Y	
Data_map_lst_updtt	Last updated date for data mapping for this feed system	Date	N	
Data_map_draft_yn	Whether data mapping for this feed system is draft? (Y or N)	Char(1)	N	
Priority	Priority for this feed system	Number	N	
Read_only	Boolean to capture whether this feed system wants to lock the data in ECS	Number	N	

**Sdet\_feed\_field\_category**

Holds all the different types (Categories) of data that can be imported or exported out of CLC2S

Column name	Description	Datatype	Nullable	Comments
Field_category_id	ID	Number	N	
Field_category_type	Type of data	Varchar2(50)	N	
Flex_field_yn	Whether this category is flex field or not? (Y or N)	Char(1)	N	
description	Category description	Varchar2(200)	Y	

**Sdet\_feed\_category\_impexp**

This table stores information about all the import\_export rules that apply to each of the category

Column name	Description	Datatype	Nullable	Comments
impexp_id	Import Export rule ID	Number	N	
Field_category_id	Category Id to which the import_export rules apply to	Number	N	



**Sdet\_feed\_field\_mapping**

This table contains field mapping information for all the file specifications of feed system

Column name	Description	Datatype	Nullable	Comments
Tag_id	Tag Id	Number	N	
File_specification_id	File specification id	Number	N	
Multiple_mapping_order	Multiple mapping order for composite fields	Number	N	
Starting_position	Starting position	Number	Y	
Ending_position	Ending position	Number	Y	
Description	Description for this field mapping	Varchar2(200)	Y	
Default_value	Default value for the tag_id (Instead of field mapping)	Varchar2(100)	Y	
Header_yn	Whether this field mapping is header (Y or N)	Char(1)	N	
Display_order	Display order for the fields on Administration tool for a particular file specification	Number	N	

**Sdet\_feed\_file\_specification**

This table holds all the file specifications for feed systems

Column name	Description	Datatype	Nullable	Comments
File_specification_id	ID	Number	N	
Feed_system_id	Feed system Id	Number	N	
Feed_direction_id	Feed direction id indicating import or export or both for the file specification	Number	Y	
Field_category_id	Category for this file specification	Number	N	
File_type	File type for this file specification	Varchar2(50)	N	
Delimiter	Delimiter separating the fields for this file specification	Varchar2(5)	Y	
Field_map_draft_yn	Whether field mapping is draft (Y or N)	Char(1)	N	
Num_rows_to_skip	Number of rows to skip for the header	Number	Y	
Field_map_lst_upd	Last updated date for field map	Date	N	

**Sdet\_feed\_asset\_type**

This is lookup table holding information for one of the export criteria – What asset type to export out of ECS? (Supplies or Equipment or both)

Column name	Description	Datatype	Nullable	Comments
Asset_id	ID	Number	N	
Asset_name	Name of the asset to be exported	Varchar2(50)	N	



**Sdet\_feed\_schedule\_units**

This table holds values for unit export criteria for a particular schedule. So potentially for a particular schedule user may want to export out data only for MCSSD57, BSSG25

Column name	Description	Datatype	Nullable	Comments
Schedule_unit_id	ID	Number	N	
File_specification_id	File specification Id	Number	N	
Schedule_type_id	Type of the schedule	Number	N	
Unit_id	UnitCode of the unit whose data is to be exported	Varchar2(6)	N	

**Sdet\_feed\_impexp\_rules**

This is lookup table holding import export rules information

Column name	Description	Datatype	Nullable	Comments
Impexp_id	ID	Number	N	
Impexp_name	Name of the import export rule	Varchar2(50)	N	

**Sdet\_feed\_validation\_rules**

This is lookup table holding feed file validation rules information

Column name	Description	Datatype	Nullable	Comments
Validation_rule_id	ID	Number	N	
Rule_name	Name of the validation rule	Varchar2(200)	N	

**Sdet\_feed\_validation\_mapping**

This table holds information about file validation rules for all the file specifications of feed systems

Column name	Description	Datatype	Nullable	Comments
File_specification_id	File specification id	Number	N	
Validation_rule_id	Validation rule id	Number	N	
Value	Value for the validation rule	Varchar2(20)	N	

**Sdet\_feed\_direction\_rules**

This is lookup table holding feed direction (import or export or both) information

Column name	Description	Datatype	Nullable	Comments
Feed_direction_id	ID	Number	N	
Feed_direction_name	Name for the feed direction	Varchar2(50)	N	



**Sdet\_feed\_status**

This is lookup table holding feed status information

Column name	Description	Datatype	Nullable	Comments
Feed_status_id	ID	Number	N	
Feed_status_name	Name for the feed status	Varchar2(50)	N	

**Sdet\_feed\_schedule\_history**

This table stores history of feeds that were run

Column name	Description	Datatype	Nullable	Comments
Feed_schedule_history_id	ID	Number	N	
File_specification_id	File specification id	Number	N	
Feed_direction_id	Feed direction id indicating import or export or both for the file specification	Number	N	
Feed_status_id	Feed status id	Number	N	
Feed_run_datetime	Datetime when the feed was ran	Date	N	
Feed_run_seconds	Time it took to run feeds in seconds	Number	N	
Error_description	Error description from running feeds	Varchar2(2000)	Y	
Error_log_path	Path to the user log file that got generated when the feeds were ran	Varchar2(200)	Y	



**Sdet\_feed\_schedule**

This table contains schedules for all the feed systems

Column name	Description	Datatype	Nullable	Comments
File_specification_id	File specification id	Number	N	
Schedule_type_id	Type of the schedule	Number	N	
Next_run_datetime	Next run datetime for the feed	Date	N	
Export_type_id	Export type id specifies the type of range of data that is to be exported from ECS	Number	Y	
Run_interval_seconds	Frequency for running feeds in seconds	Number	N	
Asset_id	Asset id to be exported	Number	N	
Cached_items_yn	Whether cached items are to be exported (Y or N)	Char(1)	N	
Deleted_items_yn	Whether deleted items are to be exported (Y or N)	Char(1)	N	
Cumulate_locations_yn	Whether rolled up unit supplies are to be exported (Y or N)	Char(1)	N	
Export_since_datetime	Export data from ECS since datetime	Date	Y	
Flex_fields_yn	Whether flex fields are to be exported (Y or N)	Char(1)	N	

**Sdet\_feed\_schedule\_type\_rules**

This is lookup table holding schedule type information

Column name	Description	Datatype	Nullable	Comments
Schedule_type_id	ID	Number	N	
Schedule_type_name	Name for the schedule type	Varchar2(50)	N	

**Sdet\_feed\_schedule\_exp\_rules**

This is lookup table holding type of range of data that can be exported from ECS

Column name	Description	Datatype	Nullable	Comments
Export_type_id	ID	Number	N	
Export_type_name	Name for the export type	Varchar2(50)	Y	

